

Claims

- [c1] 1.A mobile phone comprising:
- a processor for controlling operations of the mobile phone;
 - a power modulating module for controlling a power level of a communication signal so as to generate a corresponding transmission signal;
 - a power measuring circuit electrically connected to the power modulating module for measuring a power level of the transmission signal so as to generate a corresponding result;
 - an antenna electrically connected to the power measuring circuit for generating a corresponding alarming signal according to the result; and
 - an alarming module electrically connected to the alarm processing module for generating a corresponding sign according to the alarming signal for indicating the power level of the transmission signal.
- [c2] 2.The mobile phone of claim 1 further comprising a monitor electrically connected to the processor for displaying operational statuses of the mobile phone.
- [c3] 3.The mobile phone of claim 2 wherein the alarming

module is the monitor being capable of displaying video signals corresponding to the alarming signal.

- [c4] 4.The mobile phone of claim 1 wherein the alarming module comprises at least a light emitting diode, wherein when the power level of the transmission signal rises over a predetermined value, the alarming signal is capable of initiating a light emitting diode of the alarming module to emit light, and when the power level of the transmission signal drops below a predetermined value, the alarming signal is capable of stopping the light emitting diode from emitting light.
- [c5] 5.The mobile phone of the claim 1 wherein the alarming module comprises a vibrator for generating vibrations according to the alarming signal.
- [c6] 6.The mobile phone of claim 1 wherein the alarming module comprises a speaker for generating a sound according to the alarming signal.
- [c7] 7.The mobile phone of claim 1 wherein the power modulating module comprises:
 - a signal amplifier for amplifying the communication signal according to controls of the processor; and
 - a power amplifier electrically connected to the signal amplifier for amplifying power of the communication

signal.

- [c8] 8.The mobile phone of claim 7 wherein the processor is capable of controlling the signal amplifier according to the result generated by the power measuring circuit.
- [c9] 9.The mobile phone of claim 7 wherein the antenna is capable of receiving radio signals for generating a corresponding receiving signal.
- [c10] 10.The mobile phone of claim 9 wherein the processor is capable of controlling the signal amplifier according to the receiving signal such that when the receiving signal changes, the amplification controlled by the signal amplifier changes.
- [c11] 11.The mobile phone of claim 9 wherein the processor is capable of controlling the signal amplifier according to a power level of the receiving signal such that when the power level of the receiving signal changes, the amplification controlled by the signal amplifier changes accordingly.
- [c12] 12.The mobile phone of claim 1 wherein the alarming processing module stores at least a predetermined range applied with a corresponding alarming signal, wherein when the result measured by the power measuring circuit matches one of the predetermined ranges, the alarm

processing module is capable of generating a corresponding alarming signal.

- [c13] 13.The mobile phone of claim 1 further comprising an analog-to-digital converter (ADC) electrically connected between the power measuring circuit and the alarm processing module for converting the result measured by the power measuring circuit to a digital signal.
- [c14] 14.The mobile phone of claim 1 further comprising:
 - a microphone for receiving a sound so as to generate a voice signal; and
 - a baseband circuit electrically connected to the microphone for generating a communication signal according to the voice signal.
- [c15] 15.The mobile phone of claim 1 wherein the antenna is further capable of receiving radio signals transmitted to the mobile phone and generating a corresponding receiving signal, the mobile phone further comprising:
 - a baseband circuit for generating a voice signal according to the receiving signal;
 - a speaker electrically connected to the baseband circuit for generating a sound wave according to the voice signal;
 - a duplexer electrically connected between the antenna and a receiving circuit for transferring the transmission

signal to the antenna and transferring the receiving signal from the antenna to the power modulating circuit.